Customer No.: 31561

Application No.: 10/065,343

Docket No.: 9527-US-PA

AMENDMENTS

In The Claims

Claim 1. (currently amended) A power adapter having a freely rotatable direct current

(DC) plug connection, comprising:

a main body, including a casing that respectively encloses an adapter circuit board, a DC

connector port and an alternating current (AC) connector port, the DC connector port and the AC

connector port being respectively arranged on the adapter circuit board;

a DC wire, having a first terminal electrically connected to a DC plug that mates with the

DC connector port according to a freely rotatable manner, wherein the DC plug is detachable

from the DC connector port; and

an AC wire, having a second terminal electrically connected to the AC connector port.

Claim 2. (original) The power adapter of claim 1, wherein the casing further includes an

opening at a location corresponding to that of the DC connector port on the adapter circuit board.

Claim 3. (original) The power adapter of claim 2, wherein the DC plug further comprises:

an electrical connecting part, mating with the DC connector port; and

an insulating part, partially covering the electrical connecting part, the insulating part

being further provided with a slot that engages by fitting with a rim of the opening of the casing

in a manner to allow a free rotation of the DC plug relative to the casing while ensuring the

electrical and mechanical connection there between.

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Claim 4. (original) The power adapter of claim 3, wherein the insulating part further

includes a stress-buffer structure.

Claim 5. (original) The power adapter of claim 1, wherein the casing is formed in an

approximately parallelepiped shape.

Claim 6. (original) The power adapter of claim 1, wherein the casing is formed in an

approximately parallelepiped shape and further includes at least a recessed cavity.

Claim 7. (original) The power adapter of claim 6, wherein the DC plug freely and

rotatably connects the casing within the recessed cavity.

Claim 8. (original) The power adapter of claim 1, wherein a third terminal of the DC wire

further connects an output plug.

Claim 9. (original) The power adapter of claim 1, wherein a fourth terminal of the AC

wire connects a plug.

Claim 10. (currently amended) A freely rotatable electrical connection structure of an

electrical device, comprising:

an electrical device, having a casing in which is arranged a direct current (DC) connector

port and through which is defined an opening; and

an electrical plug, including an electrical connecting part and an insulating part, the

electrical connecting part rotatably mating with the DC connector port, and the insulating part

further including a slot that engages by fitting with a rim of the opening of the casing in order to

secure the connection between the electrical plug and the DC connector port while allowing a

free rotation there between;

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